

three inches = one foot  
one and one half inch = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

1 BUILDING 15 - ELECTRICAL DEMOLITION WORK PLAN - BASEMENT  
1/8" = 1'-0"

2 BUILDING 15 - ELECTRICAL DEMOLITION WORK PLAN - FIRST FLOOR  
1/8" = 1'-0"

KEY NOTES

- EXISTING OUTDOOR ENCLOSURE AND DISTRIBUTION EQUIPMENT INSIDE SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED WITH NEW.
- EXISTING UNDERGROUND DUCT BANK SHALL REMAIN.
- EXISTING TRANSFORMER AND SECONDARY CONDUITS SHALL REMAIN. REMOVE EXISTING SECONDARY CONDUITS AND REPLACE WITH NEW.
- EXISTING PULLBOX SHALL REMAIN AND BE RE-USED.
- EXISTING CONDUIT AND CONDUCTORS TURNING UP TO PANEL ABOVE SHALL BE REMOVED BACK TO SOURCE.
- EXISTING CONDUIT AND CONDUCTORS TURNING UP TO PANEL ABOVE SHALL REMAIN.
- EXISTING PANELBOARDS AND FEEDERS SHALL REMAIN.
- EXISTING ELEVATOR SWITCH AND FEEDER CONDUITS TO REMAIN. CONDUCTORS SHALL BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW.
- EXISTING PANEL BACK BOX SHALL REMAIN AND BE USED AS A JUNCTION BOX.
- REMOVE EXISTING PANEL AND REPLACE WITH NEW. ALTER EXISTING CONDUITS FOR NEW PANEL INSTALLATION. SEE TYPICAL SURFACE MOUNTED PANELBOARD REPLACEMENT DETAIL.
- EXISTING CONDUIT SHALL REMAIN FROM PULLBOX TO EQUIPMENT. REMOVE CONDUCTORS BACK TO SOURCE.
- EXISTING AC UNIT SWITCH SHALL REMAIN. REMOVE CONDUCTORS BACK TO SOURCE. CONDUIT SHALL REMAIN.
- PROVIDE TEMPORARY POWER FOR COMPLETE BUILDING FUNCTION WHILE EXISTING GEAR IS BEING REPLACED.

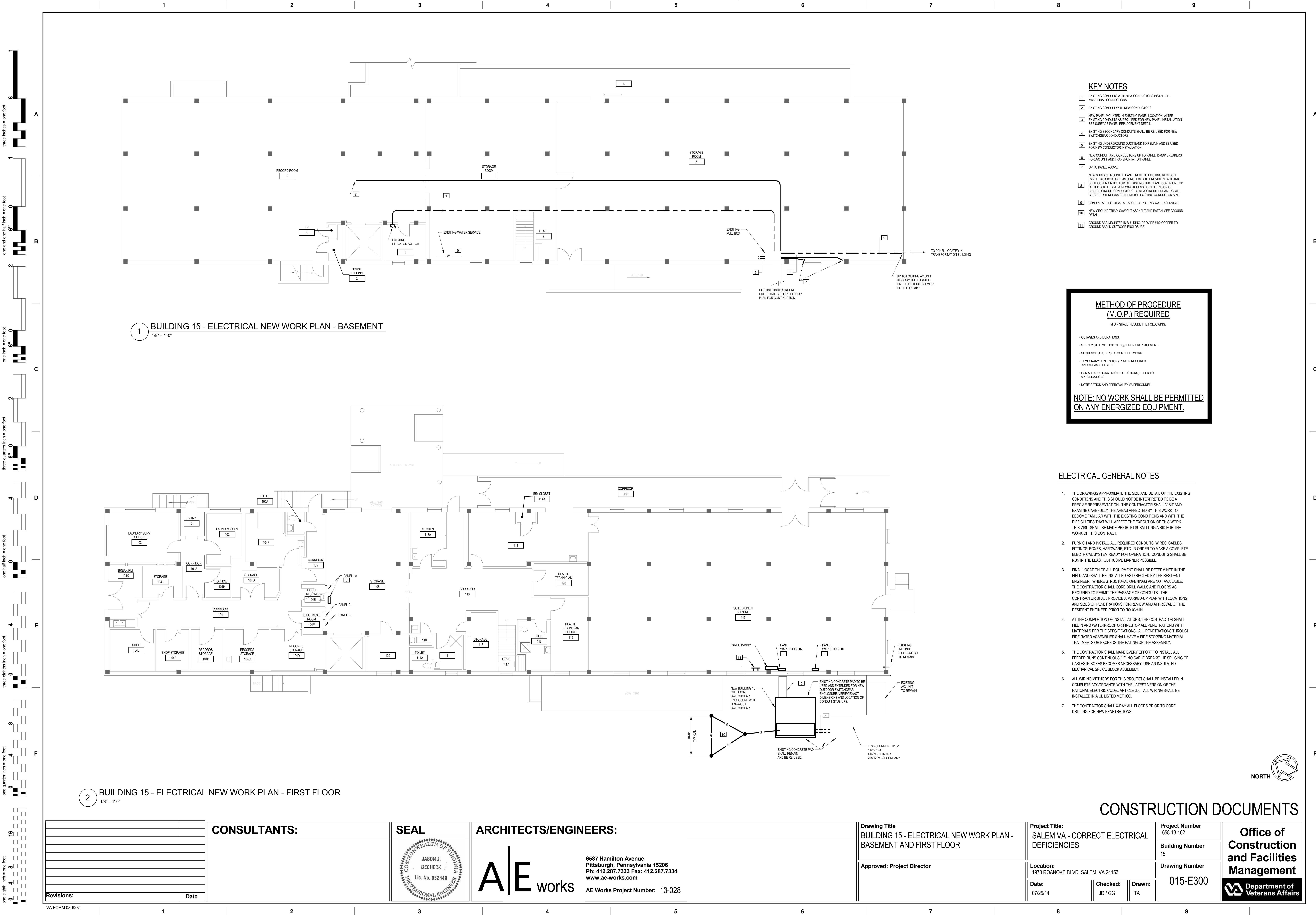
GENERAL DEMOLITION NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL DEMOLITION ACTIVITIES WITH ANY NEW CONSTRUCTION AS INDICATED WITHIN THE CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL PERFORM ALL NECESSARY DEMOLITION ACTIVITIES AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION AS INDICATED WITHIN THE CONSTRUCTION DOCUMENTS. COORDINATE WITH THOSE DOCUMENTS FOR EXACT DIMENSIONS AND LOCATIONS OF FINISHED WORK.
- ALL DEMOLITION NOT SPECIFICALLY INDICATED, BUT NECESSARY TO COMPLETE THE PROJECT AS INDICATED ON THE CONSTRUCTION DOCUMENTS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL INSPECT AND ACCESS EACH SPACE AND FULFILL THE INTENT OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS. DEVIATIONS REQUIRED BY EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE C.O.R. PRIOR TO PROCEEDING WITH THE WORK.
- ANY CUTTING AND REMOVAL INDICATED ON THE CONSTRUCTION DOCUMENTS ARE GENERAL INDICATIONS ONLY AND MAY NOT NECESSARILY SHOW THE FULL EXTENT OF CUTTING AND REMOVAL NECESSARY.
- THROUGHOUT THE COURSE OF DEMOLITION ACTIVITIES, PROPERLY PROTECT ANY EXISTING CONSTRUCTION INDICATED TO REMAIN. EXERCISE CARE WHEN REMOVING ADJACENT CONSTRUCTION AND PROPERLY REPAIR TO ORIGINAL CONDITION. ANY AREAS SCHEDULED TO REMAIN THAT SUSTAIN DAMAGE AS A RESULT OF DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL CONSTRUCT DUST PROOF PROTECTIVE BARRIERS AS NECESSARY AT AREAS OF INTERIOR DEMOLITION TO PROTECT EXISTING CONSTRUCTION AND EQUIPMENT SCHEDULED TO REMAIN.
- PERFORM ALL WORK REQUIRED TO PROTECT BUILDING OCCUPANTS AND EXISTING BUILDING UTILITIES. THE BUILDING WILL REMAIN IN OPERATION THROUGHOUT THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY TEMPORARY BRACING AND SHORING AS REQUIRED TO MAINTAIN THE INTEGRITY AND STRUCTURAL STABILITY OF THE BUILDING AND ITS INDIVIDUAL ELEMENTS.
- EXCEPT AS NOTED OTHERWISE, REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS/REGULATIONS. DO NOT BURN, BURY, OR SELL MATERIALS ON THE PROJECT SITE. AT THE COMPLETION OF EACH WORK DAY, CLEAN THE ENTIRE WORK AREA AND LEAVE IN A NEAT CONDITION FREE OF DEBRIS AND RUBBISH.
- STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, TELECOMMUNICATION, AND CIVIL DOCUMENTS PROVIDE ADDITIONAL DEMOLITION REQUIREMENTS FOR EACH PRIME CONTRACT. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THOSE DOCUMENTS THAT MAY PROVIDE ADDITIONAL DEMOLITION REQUIREMENTS BEYOND THOSE SPECIFICALLY INDICATED ON THE ARCHITECTURAL DEMOLITION PLANS.
- THROUGHOUT THE COURSE OF DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL PATCH, REPAIR AND PREPARE EXISTING EXPOSED SURFACES AND/OR ADJACENT MATERIAL AS REQUIRED TO RECEIVE NEW FINISHES.
- CAREFULLY REMOVE AND DELIVER TO THE OWNER ANY EXISTING FIRE EXTINGUISHERS FOUND WITHIN THE LIMIT OF DEMOLITION ACTIVITIES.



CONSTRUCTION DOCUMENTS

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ELECTRICAL FEEDER SCHEDULE									
COLUMN 3					COLUMN 4				
3PH, 3W, & GROUND					3PH, 4W, & GROUND				
AMPS					AMPS				
15	(1) #12 & #12 G IN 3/4"				15	(1) #12 & #12 G IN 3/4"			
20	(1) #12 & #12 G IN 3/4"				20	(1) #12 & #12 G IN 3/4"			
25	(1) #10 & #10 G IN 3/4"				25	(1) #10 & #10 G IN 3/4"			
30	(1) #10 & #10 G IN 3/4"				30	(1) #10 & #10 G IN 3/4"			
35	(1) #8 & #10 G IN 3/4"				35	(1) #8 & #10 G IN 3/4"			
40	(1) #8 & #10 G IN 3/4"				40	(1) #8 & #10 G IN 3/4"			
45	(1) #6 & #10 G IN 3/4"				45	(1) #6 & #10 G IN 3/4"			
50	(1) #6 & #10 G IN 3/4"				50	(1) #6 & #10 G IN 3/4"			
60	(1) #4 & #10 G IN 1"				60	(1) #4 & #10 G IN 1 1/4"			
70	(1) #4 & #10 G IN 1 1/4"				70	(1) #4 & #10 G IN 1 1/4"			
80	(1) #3 & #10 G IN 1 1/4"				80	(1) #3 & #10 G IN 1 1/4"			
90	(1) #2 & #10 G IN 1 1/4"				90	(1) #2 & #10 G IN 1 1/4"			
100	(1) #1 & #10 G IN 1 1/2"				100	(1) #1 & #10 G IN 1 1/2"			
125	(1) #1 & #10 G IN 1 1/2"				125	(1) #1 & #10 G IN 1 1/2"			
150	(1) #1/0 & #10 G IN 1 1/2"				150	(1) #1/0 & #10 G IN 1 1/2"			
175	(1) #2/0 & #10 G IN 2"				175	(1) #2/0 & #10 G IN 2"			
200	(1) #3/0 & #10 G IN 2"				200	(1) #3/0 & #10 G IN 2"			
225	(1) #4/0 & #10 G IN 2"				225	(1) #4/0 & #10 G IN 2"			
250	(1) #500 KCMIL & 194 G IN 2 1/2"				250	(1) #500 KCMIL & 194 G IN 2 1/2"			
300	(1) #500 KCMIL & 194 G IN 2 1/2"				300	(1) #500 KCMIL & 194 G IN 2 1/2"			
350	(1) #500 KCMIL & 193 G IN 3"				350	(1) #500 KCMIL & 193 G IN 3"			
400	(1) #500 KCMIL & 193 G IN 3"				400	(1) #500 KCMIL & 193 G IN 3"			
450	2 SETS OF (1) #4/0 & #12 G IN 2"				450	2 SETS OF (1) #4/0 & #12 G IN 2 1/2"			
500	2 SETS OF (1) #250 KCMIL #12 G IN 2 1/2"				500	2 SETS OF (1) #250 KCMIL #12 G IN 3"			
600	2 SETS OF (1) #350 KCMIL & 191 G IN 3"				600	2 SETS OF (1) #350 KCMIL & 191 G IN 3"			
800	2 SETS OF (1) #500 KCMIL & 1910 G IN 3"				800	2 SETS OF (1) #500 KCMIL & 1910 G IN 3 1/2"			
1000	3 SETS OF (1) #350 KCMIL & 1920 G IN 3"				1000	3 SETS OF (1) #350 KCMIL & 1920 G IN 3"			
1200	3 SETS OF (1) #500 KCMIL & 1920 G IN 3"				1200	3 SETS OF (1) #500 KCMIL & 1920 G IN 3 1/2"			
1600	4 SETS OF (1) #350 KCMIL & 1930 G IN 3"				1600	4 SETS OF (1) #350 KCMIL & 1930 G IN 3"			
2000	5 SETS OF (1) #500 KCMIL & 1940 G IN 3"				2000	5 SETS OF (1) #500 KCMIL & 1940 G IN 3 1/2"			
2500	6 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"				2500	6 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"			
3000	7 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"				3000	7 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"			
3500	8 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"				3500	8 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"			
4000	10 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"				4000	10 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"			
4000	11 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"				4000	11 SETS OF (1) #500 KCMIL & 19500 KCMIL G IN 3 1/2"			

**NOTES:**

1. CONDUIT SIZES FOR THYNYTITE COPPER CONDUCTORS ONLY. OTHER CONDUCTOR TYPES MAY REQUIRE INCREASED CONDUIT SIZE.


2. GROUND CONDUCTORS SPECIFIED ARE FOR EQUIPMENT GROUND PER N.E.C. UNLESS NOTED OTHERWISE.

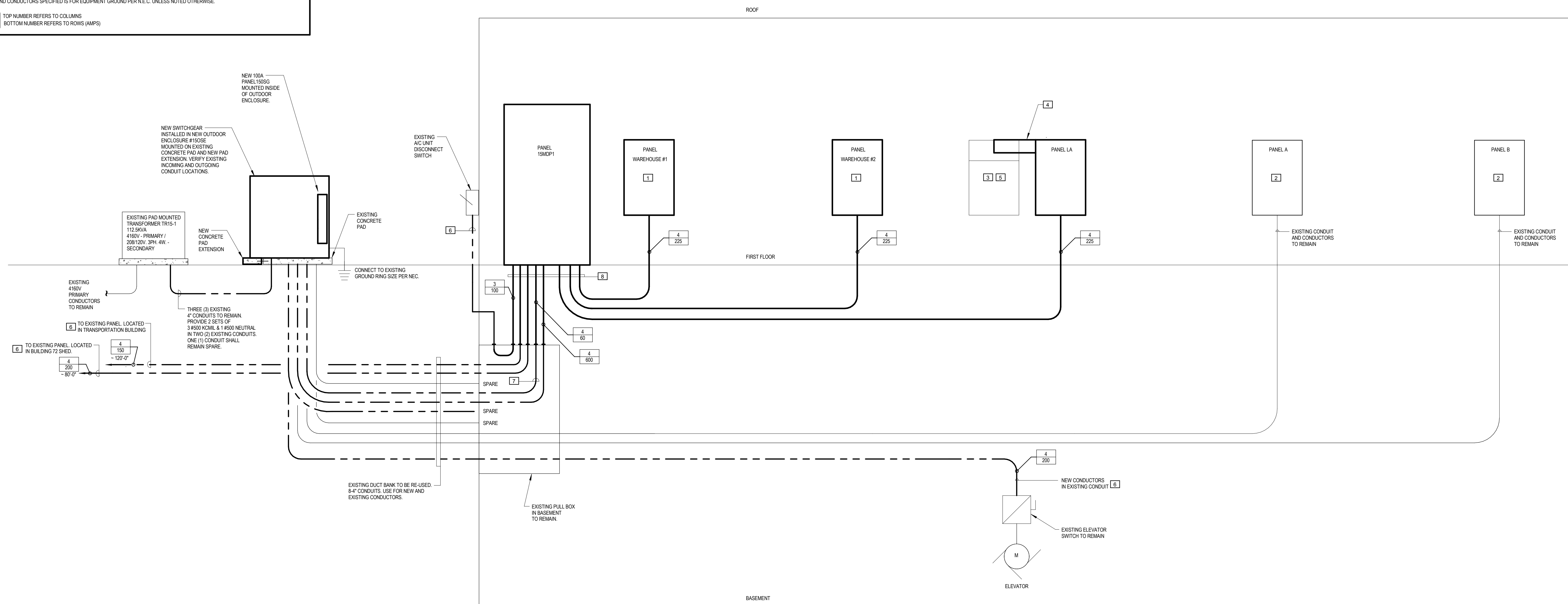
3	TOP NUMBER REFERS TO COLUMNS
4	BOTTOM NUMBER REFERS TO ROWS (AMPS)

## KEY NOTES

- |   |   |
|---|---|
| 1 | NEW PANEL MOUNTED IN OLD PANEL LOCATION.                                    |
| 2 | EXISTING PANEL TO REMAIN  |
| 3 | EXISTING PANEL BACK BOX USED AS A JUNCTION BOX.                             |
| 4 | NEW WIREWAY USED TO EXTEND EXISTING BRANCH CIRCUIT CONDUCTORS.              |
| 5 | NEW SPLIT BLANK COVER PLATE ON EXISTING BACK BOX.                           |
| 6 | NEW CONDUCTORS IN EXISTING CONDUIT FROM EXISTING PULLBOX TO PANEL / DEVICE. |
| 7 | NEW PANEL 150SG INSIDE OUTDOOR SWITCHGEAR ENCLOSURE.                        |
| 8 | TO CONDUIT AND CONDUCTORS UP TO RESPECTIVE BREAKERS                         |

## LINETYPES

-  NEW WORK  
 EXISTING  
 EXISTING / NEW

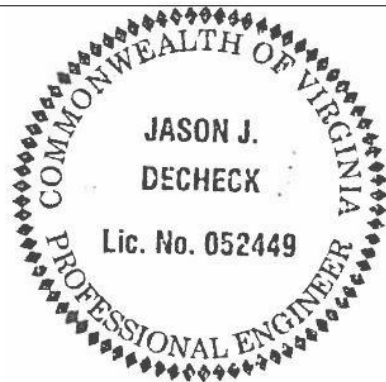


1 BUILDING 15 - NEW WORK RISER DIAGRAM

[illegible]

## CONSULTANTS:

## SEAL



**ARCHITECTS/ENGINEERS:**



**6587 Hamilton Avenue  
Pittsburgh, Pennsylvania 15206  
Ph: 412.287.7333 Fax: 412.287.7334  
www.ae-works.com**

**AE Works Project Number: 13-028**

<b>Drawing Title</b>
BUILDING 15 - NEW WORK RISER DIAGRAM

Approved: Project Director

**Project Title:**  
SALEM VA - CORRECT ELECTRICAL  
DEFICIENCIES

**Location:**  
1970 ROANOKE BLVD. SALEM, VA 24153

**Date:**  
07/25/14

Checked  
JD / GG

Drawn  
TA

**Project Number**  
658-13-102

---

**Building Number**  
15

Drawing Number  
015-E610

**Office of  
Construction  
and Facilities  
Management**





